QC ABSTRACT

Nameof Work: Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Banglore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	6.45 Cum	1	1	Cement	One Test Per Lot
					Sand, Aggregates	
2	M20	9.68 Cum	2	2	Concrete Cube Compressive Strength	-
3	CPVC Pipe	86 Rmt	1	1	Concrete Core Compressive Strength	-
4	WMM	6.45 Cum	-	-	-	-
		Atterberg Limits	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Gradation	1	1	-	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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of work: Maintence of Borwell and providing motors
load No.13. Shettyhalli Sub dn

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Job No: CACE/BBMP/HKS/W.No.13/2022-23

Date: 23.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**
NAME OF THE WORK	:	Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		June - 2022
DATE OF TESTING		21.07.2022 to 23.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Authorised Signatory

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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

eq work: Maintence of Borwell and providing motors
Ward No.13. Shettyhalli

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Date 23.07.2022

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work :Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Date of Testing 23.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	9.10	9.10	90.9	90-100
2.36	129	12.90	22.00	78.0	75-100
1.18	179	17.90	39.90	60.1	55-90
600 Micron	167	16.70	56.60	43.4	35-59
300 Micron	251	25.10	81.70	18.3	8-30
150 Micron	141	14.10	95.80	4.2	0-10

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Job No.: CACE/BBMP/HKS/W.No.13/2022-23 Date : 23.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :**Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work :Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Date of Testing : 23.07.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	40	4.00	5.50	94.5	70-100
600 Micron	87	8.70	14.20	85.8	40-100
300 Micron	249	24.90	39.10	60.9	5-70
150 Micron	485	48.50	87.60	12.4	0-15

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Job No.: CACE/BBMP/HKS/W.No.13/2022-23 Date 23.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work :Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Date of Testing 23.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	191	3.8	3.8	96.2	95-100
10	2445	48.9	52.7	47.3	25-55
4.75	1962	39.2	92.0	8.0	0-10

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work :Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Date of Testing 23.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	197	1.31	1.31	98.69	95-100
20	8255	55.03	56.35	43.65	30-70
10	3249	21.66	78.01	21.99	10-35
4.75	2815	18.77	96.77	3.23	0-5

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Date: 22.07.2022

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Sample Supplied by: : AGENCY

BIS Code: : IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 50mm dia

Date of Testing : 22.07.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54.0 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.9	Min 53.7 mm Max 54.3mm
4	Density	1480Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Date : 23.07.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 23.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	179	179	1.8	98.2	95-100
22.4	2652	2831	28.3	71.7	60-80
11.2	2258	5089	50.9	49.1	40-60
4.75	1899	6988	69.9	30.1	25-40
2.36	1210	8198	82.0	18.0	15-30
0.600	579	8777	87.8	12.2	8-22
0.075	1086	9863	98.6	1.4	0-5

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Aggregate Impact Value

Client	**Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	**Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**
Name of the Work	Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.
IS Code:	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	23.07.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	379	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	296	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.90	22.31	**22.10**

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Date: 23.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**
Agency	**Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**
Name of Work	Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	23.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	13.2	11.1	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	10.5	13.1	
	Combined Flakiness & Elongation index	23.70	24.2	

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Date : 23.07.2022

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency :**Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of Work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 21.07.2022 to 23.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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23/07/2022

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Date: 01.08.2022

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of the work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2022	01.08.2022	8.132	336.3	14.95
2	25.07.2022	01.08.2022	8.145	345.5	15.36
3	25.07.2022	01.08.2022	8.156	352.8	15.68

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Job No.: CACE/BBMP/HKS/W.No.13/2022-23

Date: 22.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of the work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2022	22.08.2022	8.178	505.3	22.46
2	25.07.2022	22.08.2022	8.162	512.8	22.79
3	25.07.2022	22.08.2022	8.154	489.6	21.76

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

Date: 01.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of the work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2022	01.08.2022	8.168	336.3	14.95
2	25.07.2022	01.08.2022	8.184	345.5	15.36
3	25.07.2022	01.08.2022	8.172	352.8	15.68

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Date: 22.08.2022

Job No.: CACE/BBMP/HKS/W.No.13/2022-23

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.**

Agency : **Sri.Hemanth Kumar .S. E,Contractor,Bangalore.**

Name of the work : Maintenance of Borewell and Providing Motors in Ward No.13 Shettyhalli Sub Division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.07.2022	22.08.2022	8.186	500.2	22.23
2	25.07.2022	22.08.2022	8.154	476.5	21.18
3	25.07.2022	22.08.2022	8.149	489.6	21.76

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory